

003720 62307960

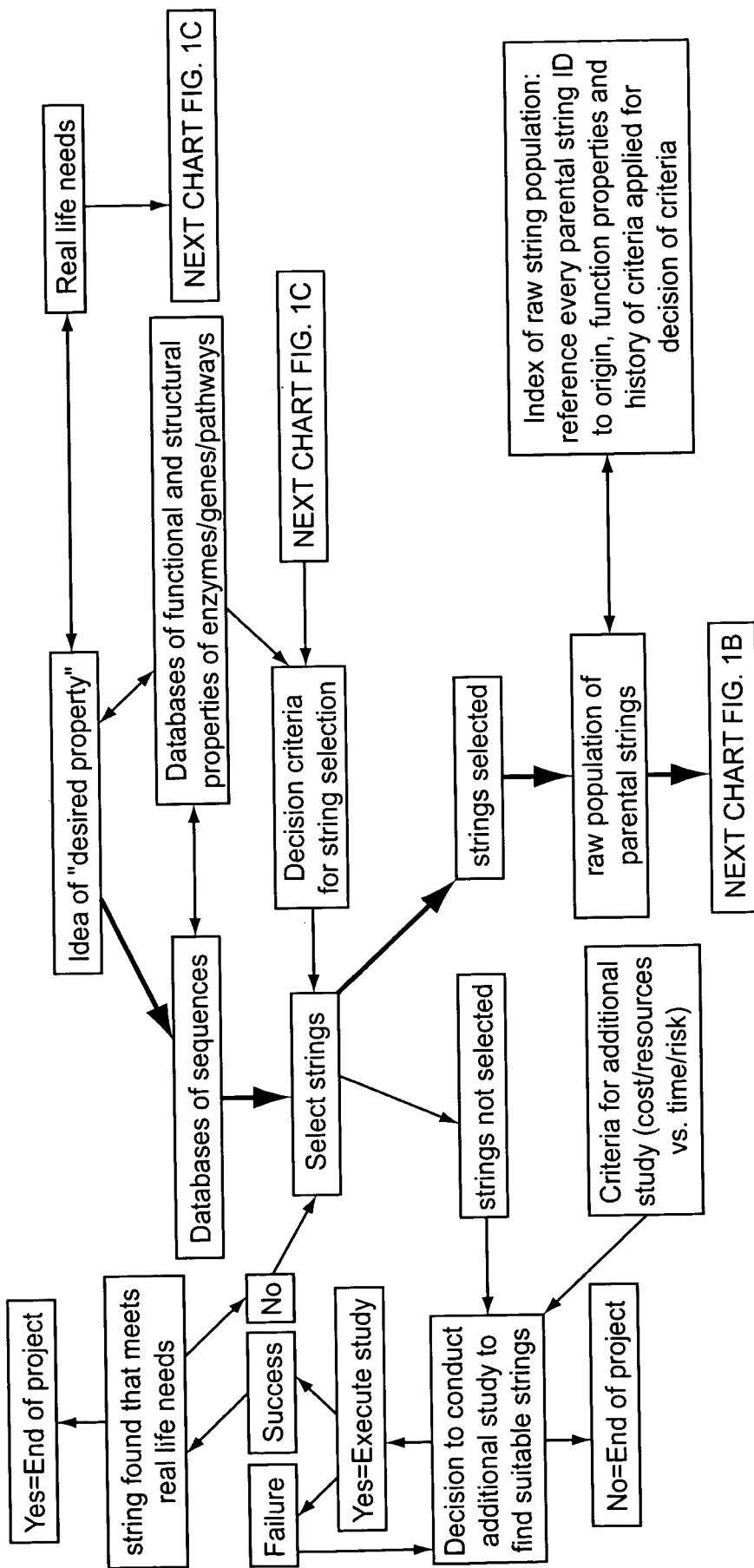
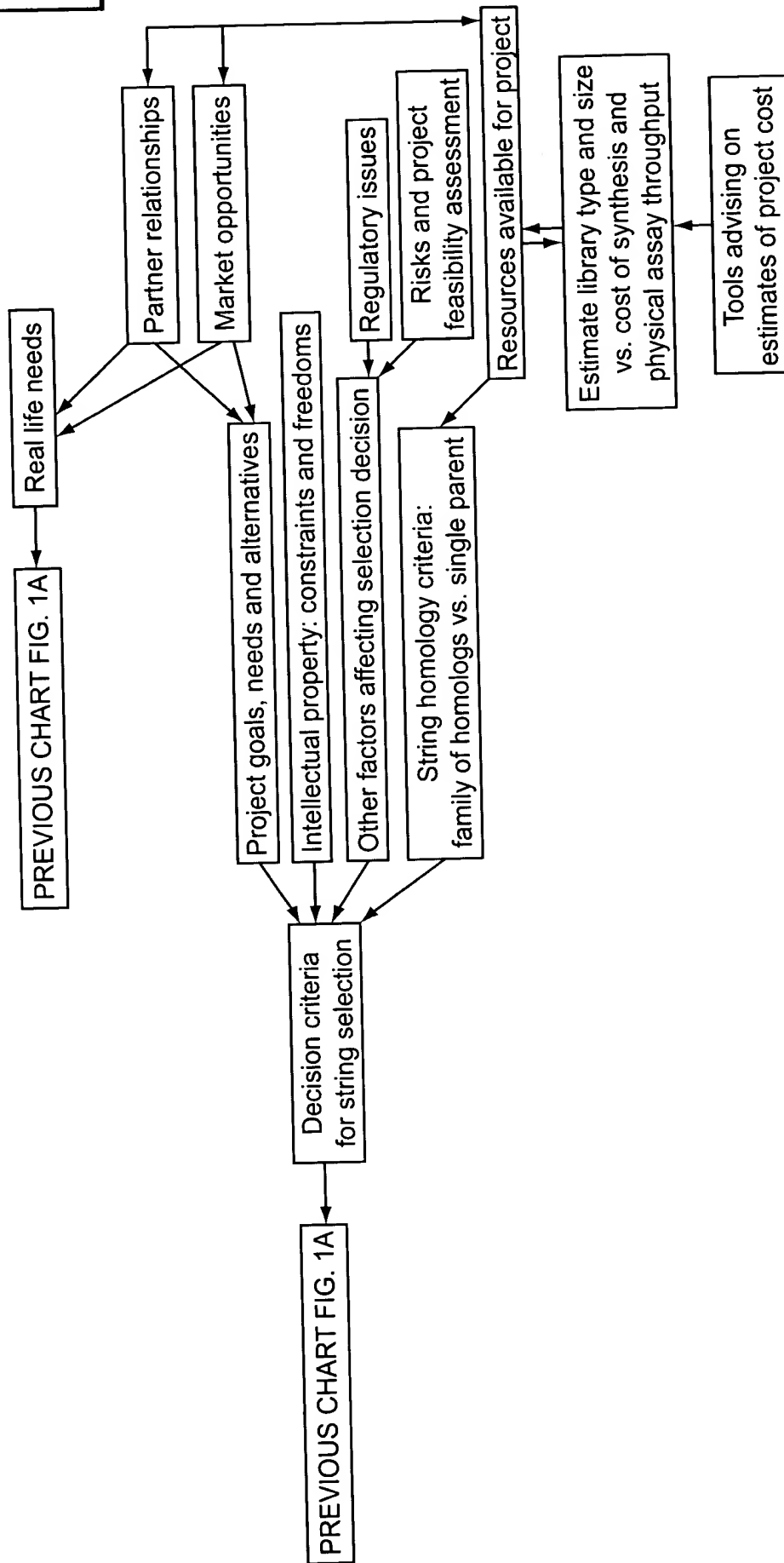


Fig. 1A



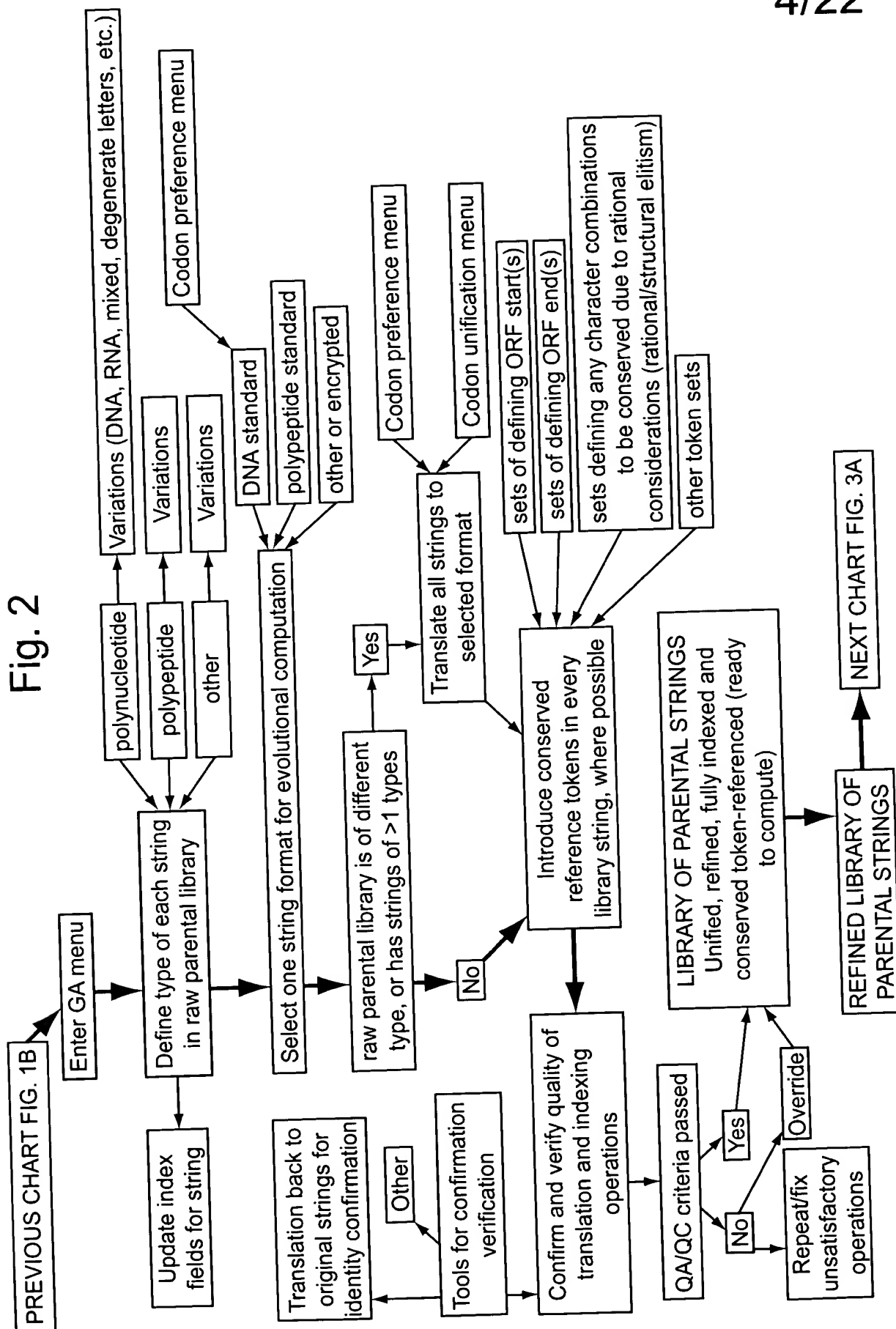
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 1C



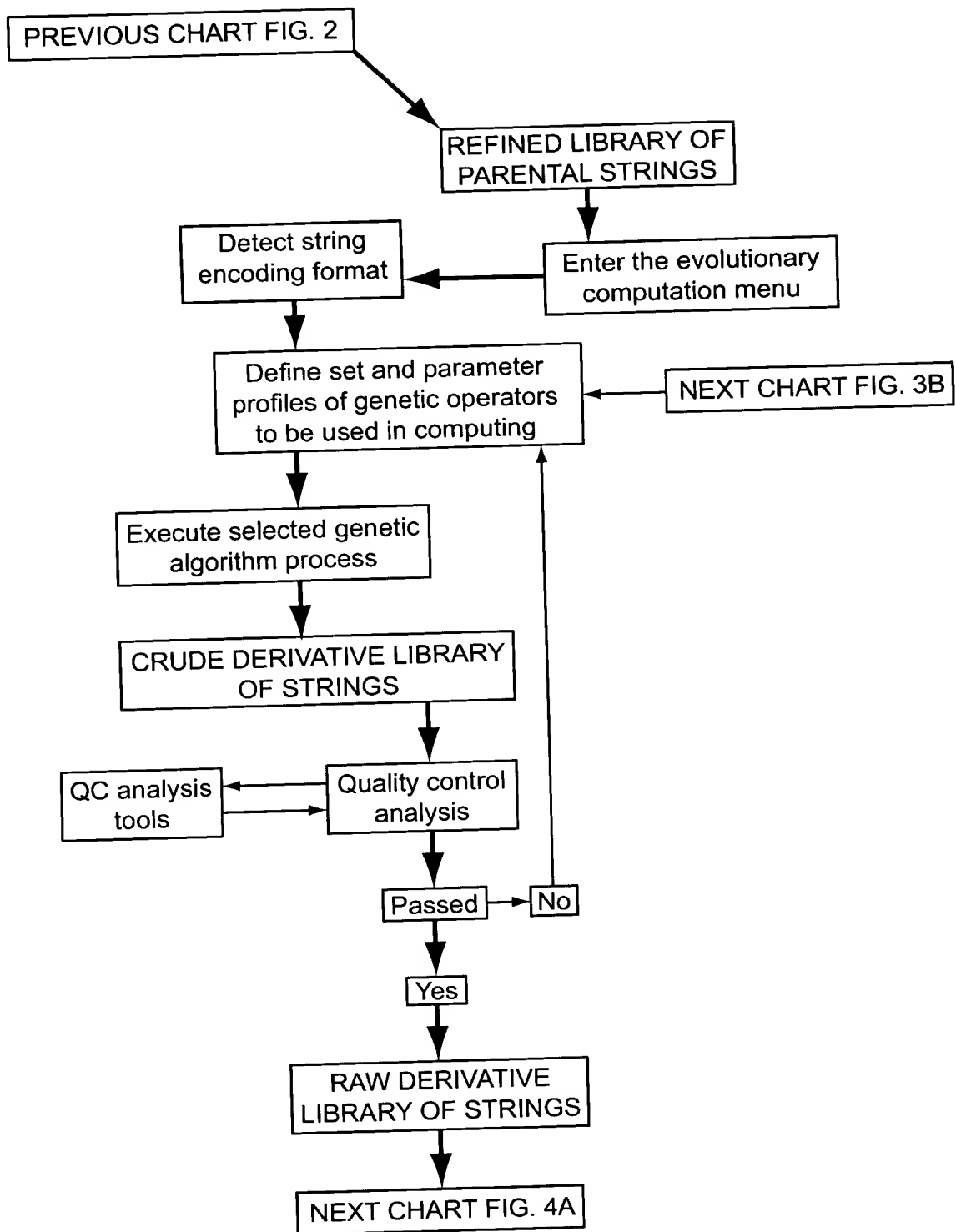
3/22

Fig. 1C



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5/22



**Fig. 3A**



7/22

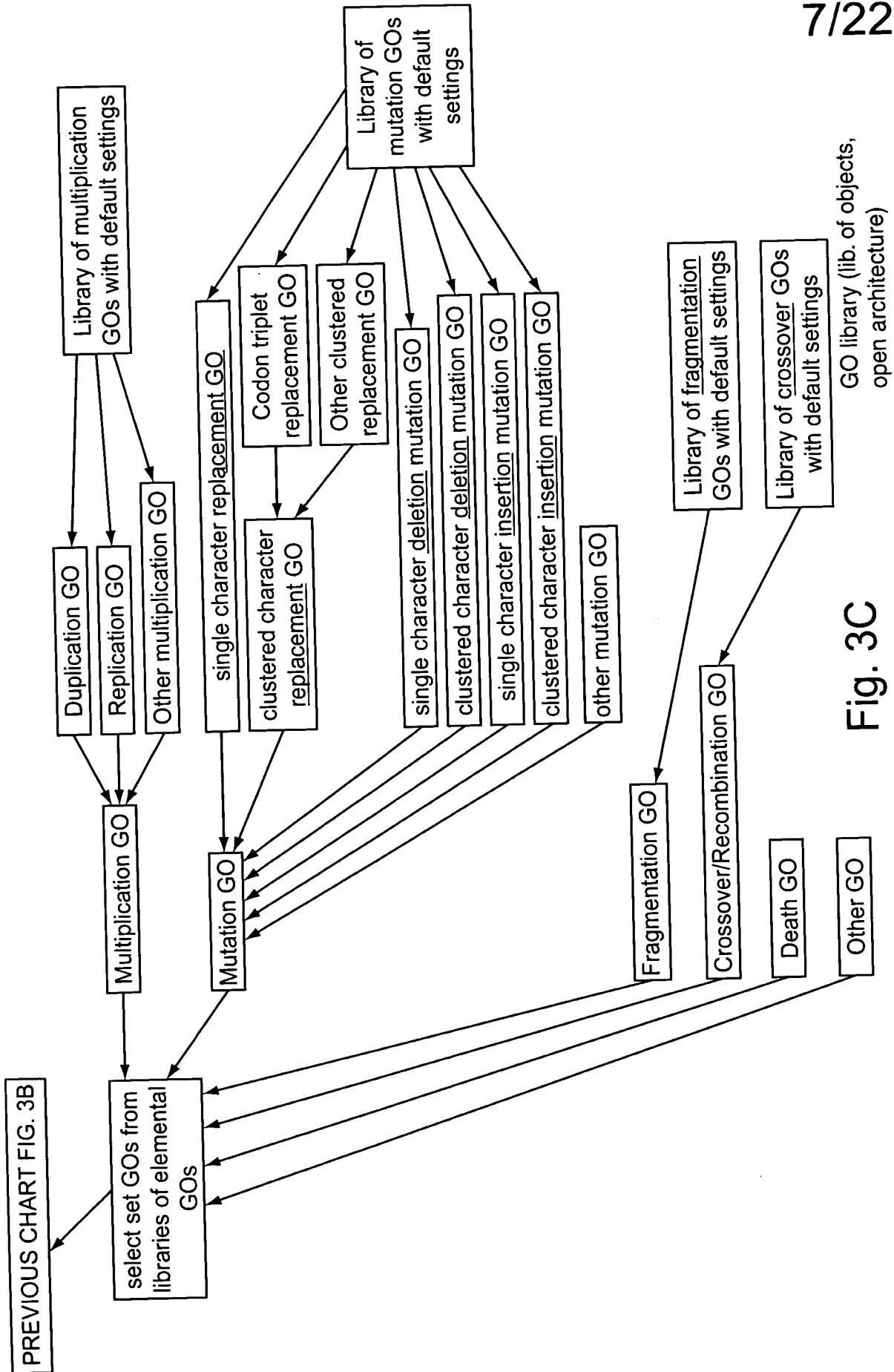


Fig. 3C







10/22

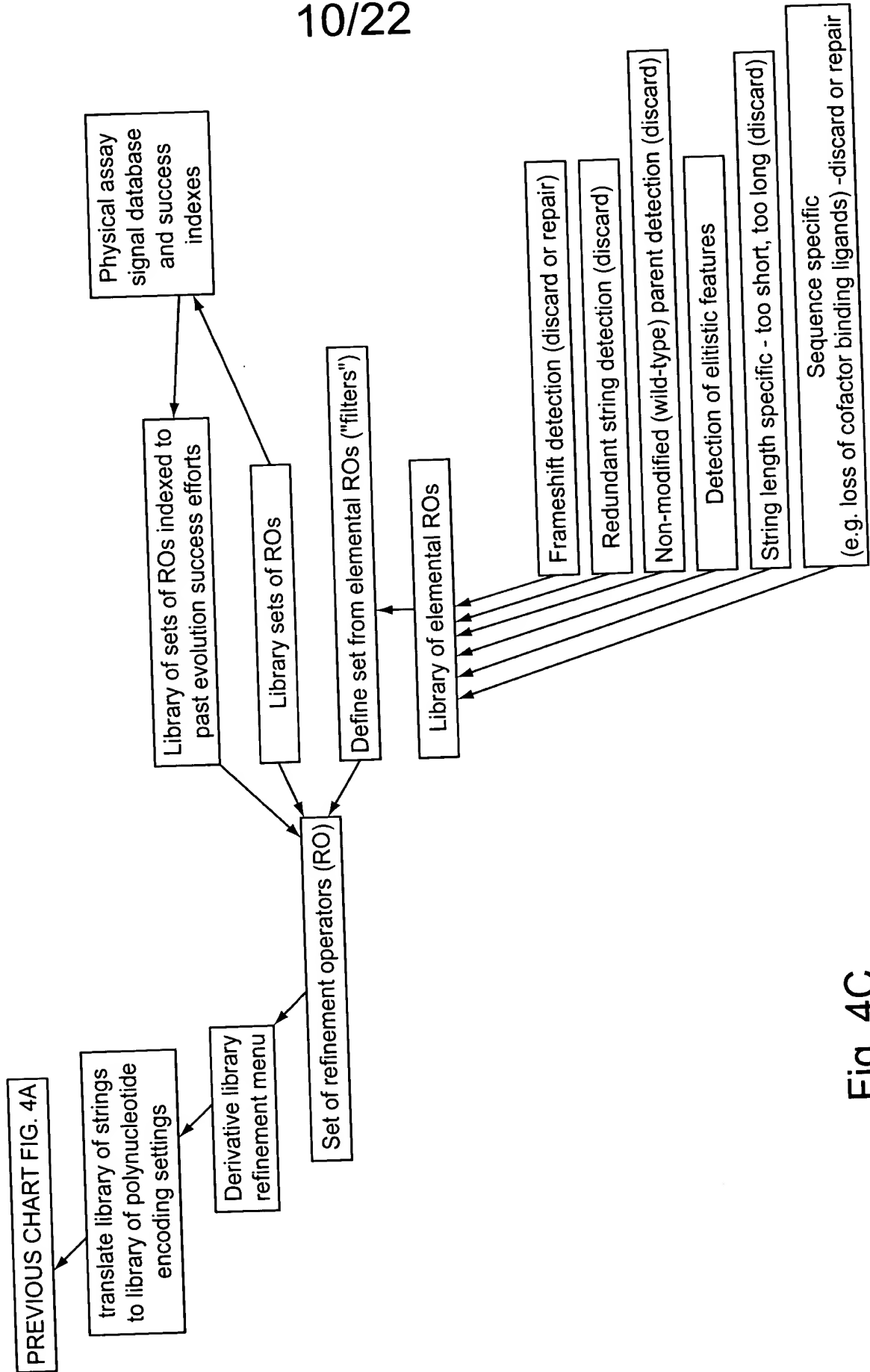


Fig. 4C

003143" 6433F561

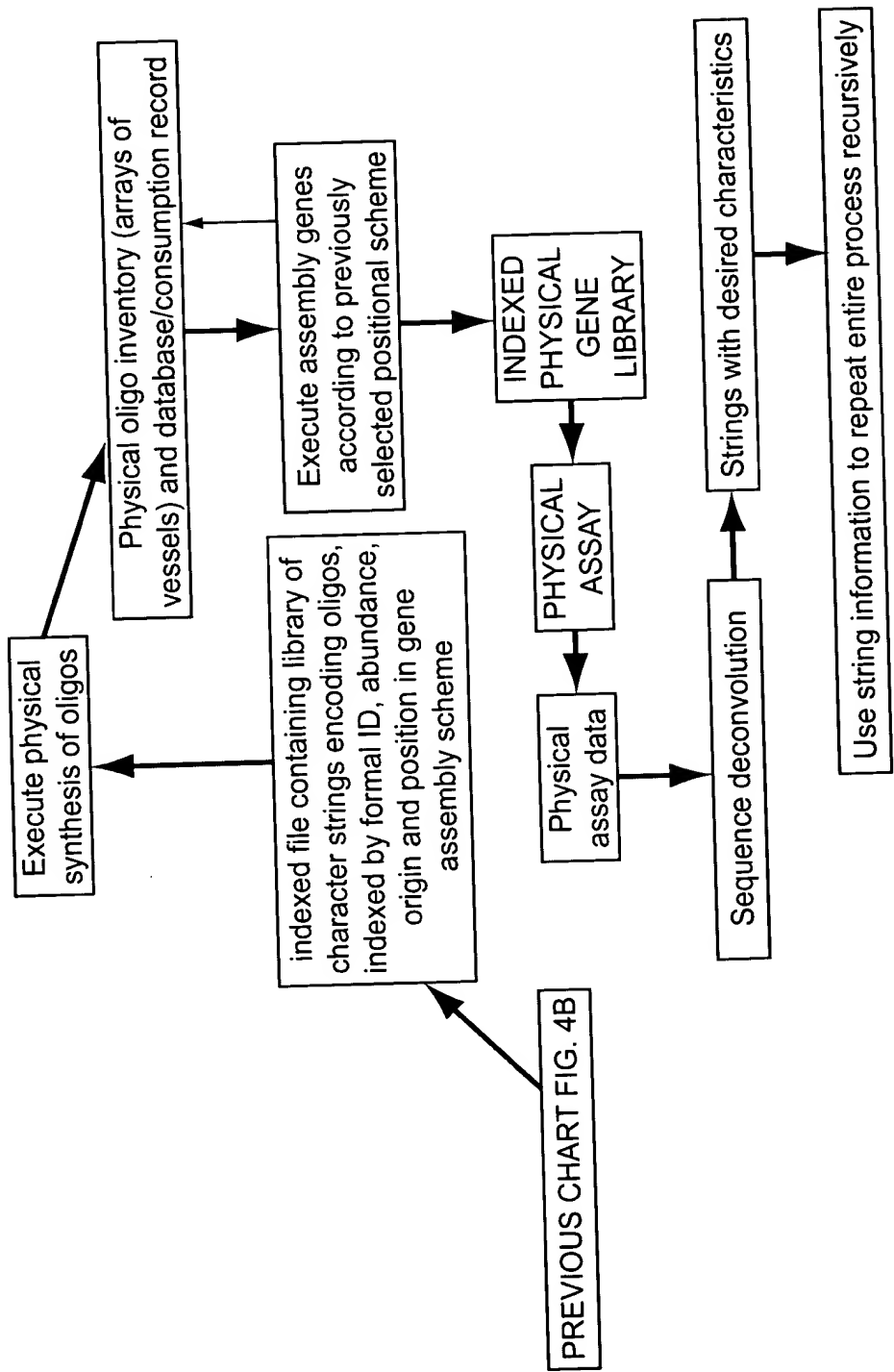


Fig. 4D

12/22

Percent Similarity

	1	2	3	4	5	6	7		
1		62.1	81.4	57.6	81.8	56.1	59.1	1	A27211 synthetic 309.PM
2	50.5		61.0	54.9	59.5	58.2	60.8	2	BACAPRQ subtilisin.PM
3	21.0	52.0		54.6	78.4	50.6	53.2	3	BACAPRS subtilisin.PM
4	54.4	63.3	62.3		52.0	64.6	67.9	4	BACSBTL subtilisin.PM
5	20.5	54.9	25.1	65.6		53.9	56.5	5	BACYAB subtilisin alk.PM
6	58.6	56.6	72.2	44.2	63.4		94.9	6	BLSC11594 subtilisin.PM
7	52.5	51.4	66.0	38.5	57.8	4.9		7	I82494 keratinase.PM
	1	2	3	4	5	6	7		

Fig. 5A

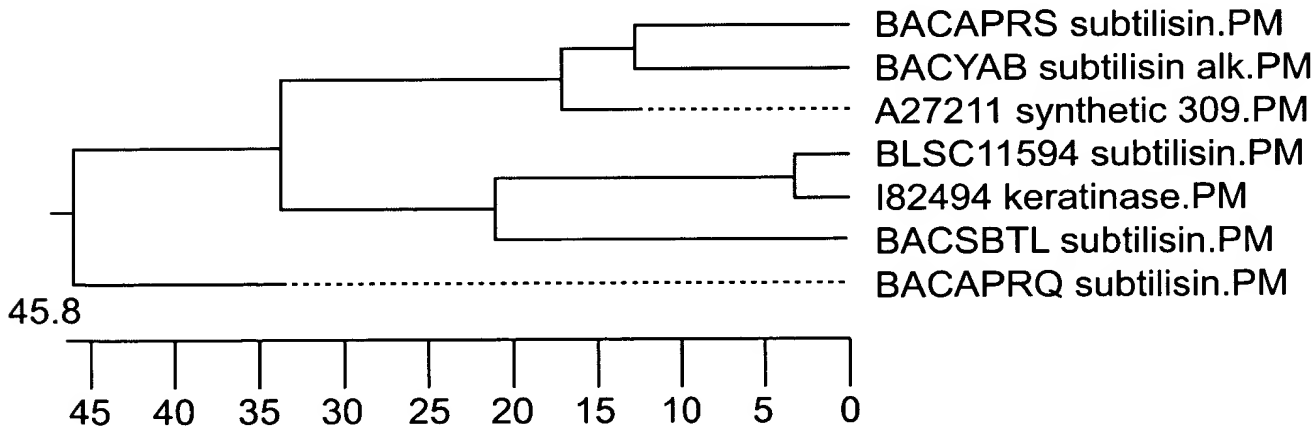


Fig. 5B



APPROVED	O.G. FIG.	
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14/22

003120" 6/58T500

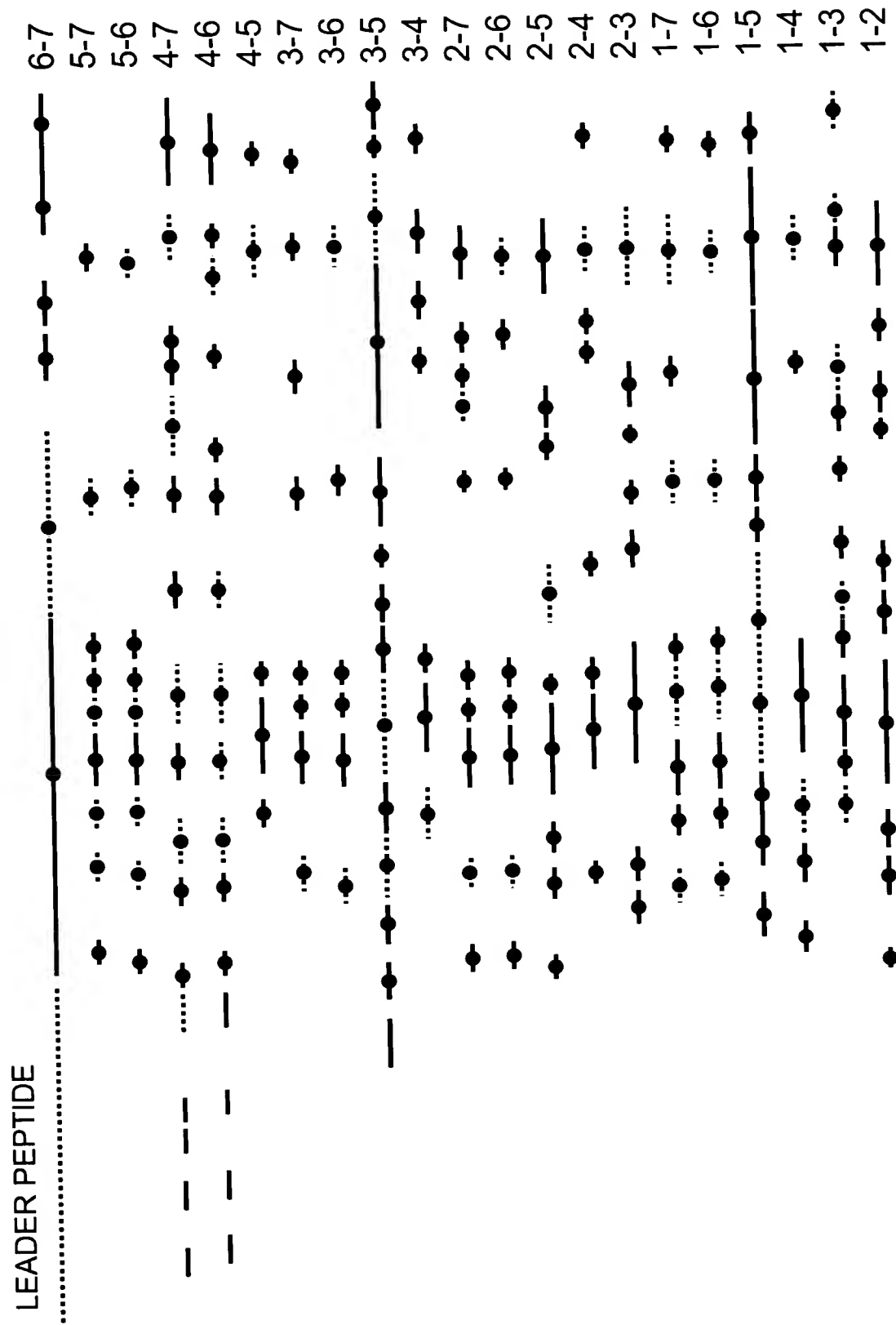
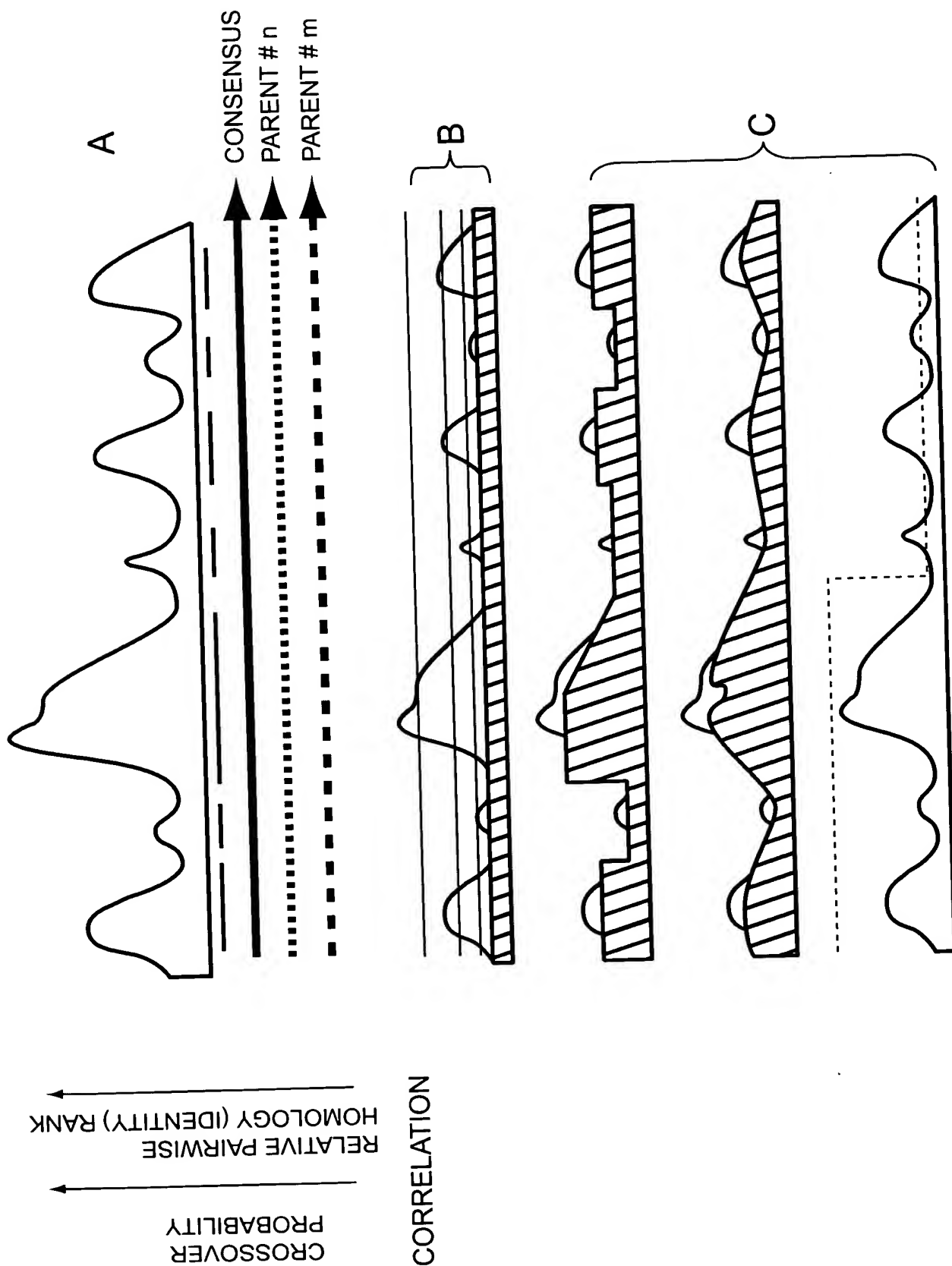


Fig. 7

APPROVED	O.G. FIG.	
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15/22

Fig. 8



16/22

Introducing indexed crossover points marker into sequence of each of the parents

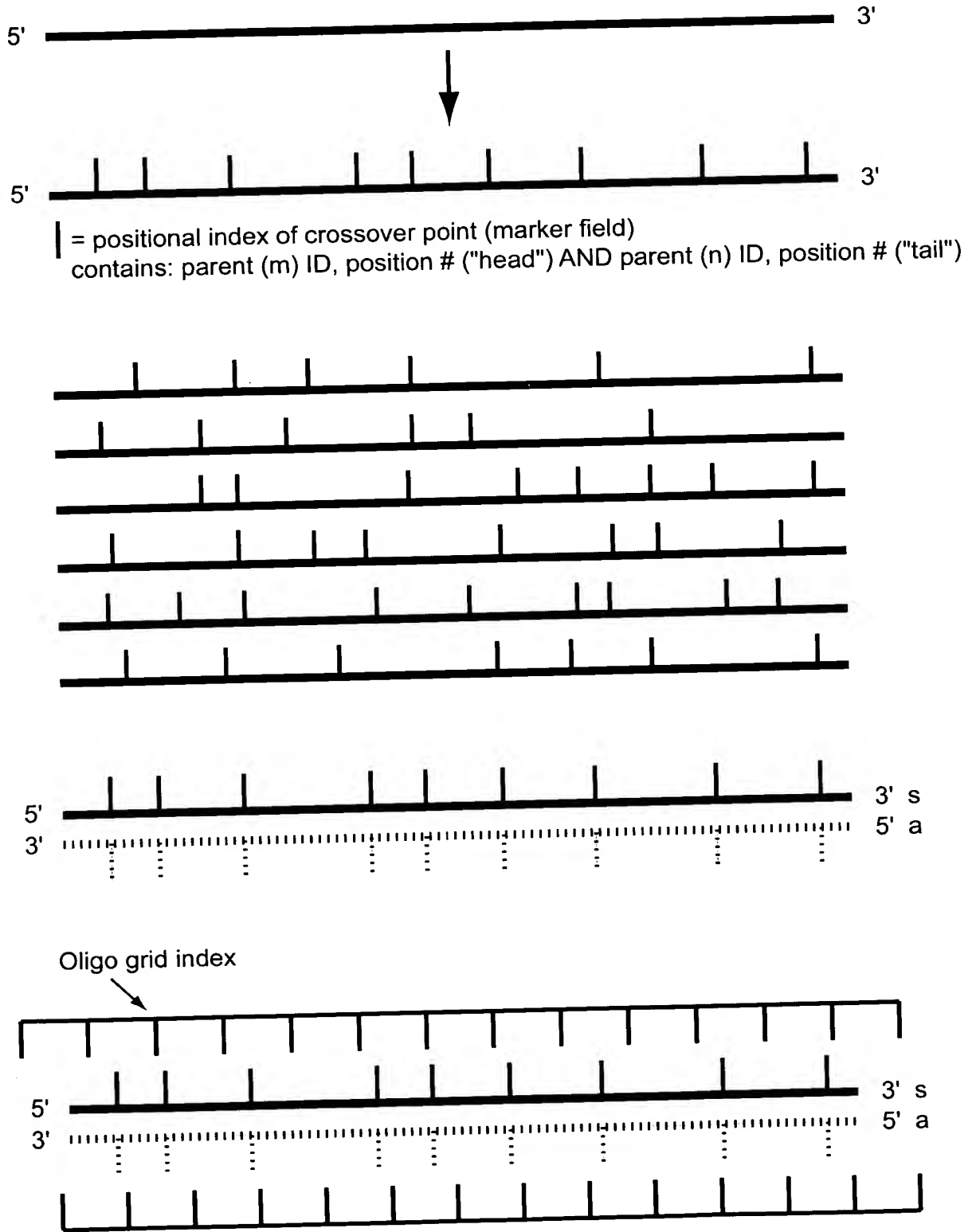


Fig. 9

0961859-071800

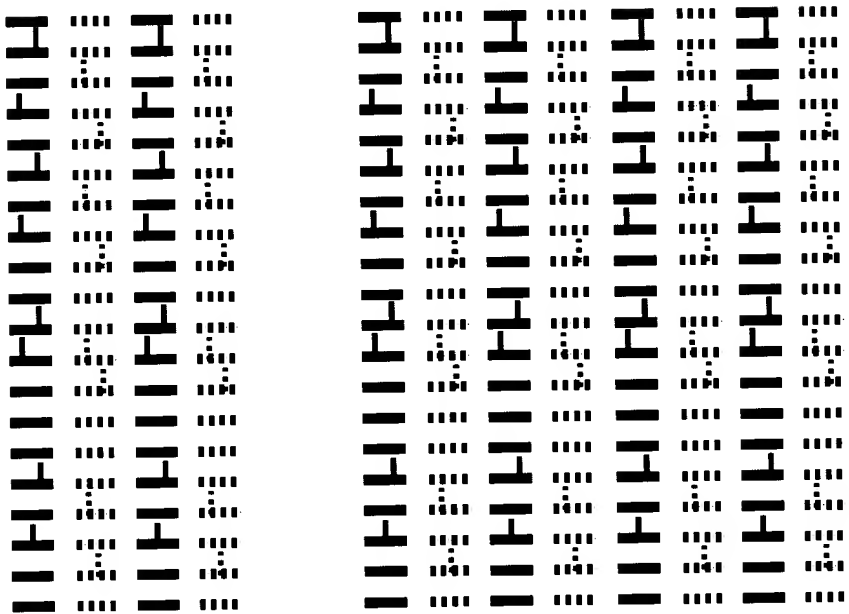
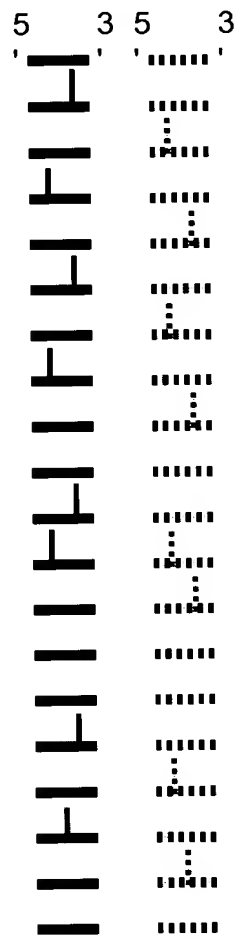


APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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17/22

SET OF OLIGOS  
TO ASSEMBLE A PARENT

COMPLETE INVENTORY OF  
OLIGO SEQUENCES  
(TO ASSEMBLE ALL PARENTS)



FIND ALL PAIRS OF PAIRS OF  
OLIGO SEQUENCES WITH  
MATCHING PAIRWISE  
CROSSOVER INDEXES



SUB-INVENTORY OF OLIGOS WITH  
CROSSOVER MARKERS

Fig. 10



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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19/22

Percent Similarity					
	1	2	3		
1		87.1	79.1	1	24DNT-45DO.ISP-L.prot
2	13.0		83.3	2	2NT-23DO.ISP-L.prot
3	21.7	17.9		3	NDO-PpG7.ISP-L.prot
	1	2	3		

Fig. 12A

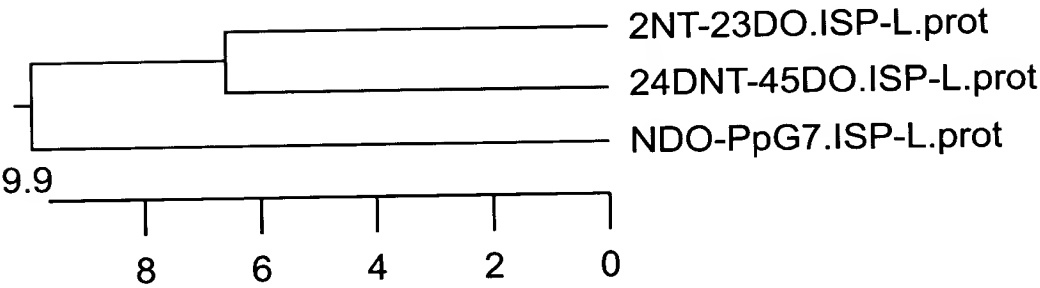


Fig. 12B

20/22

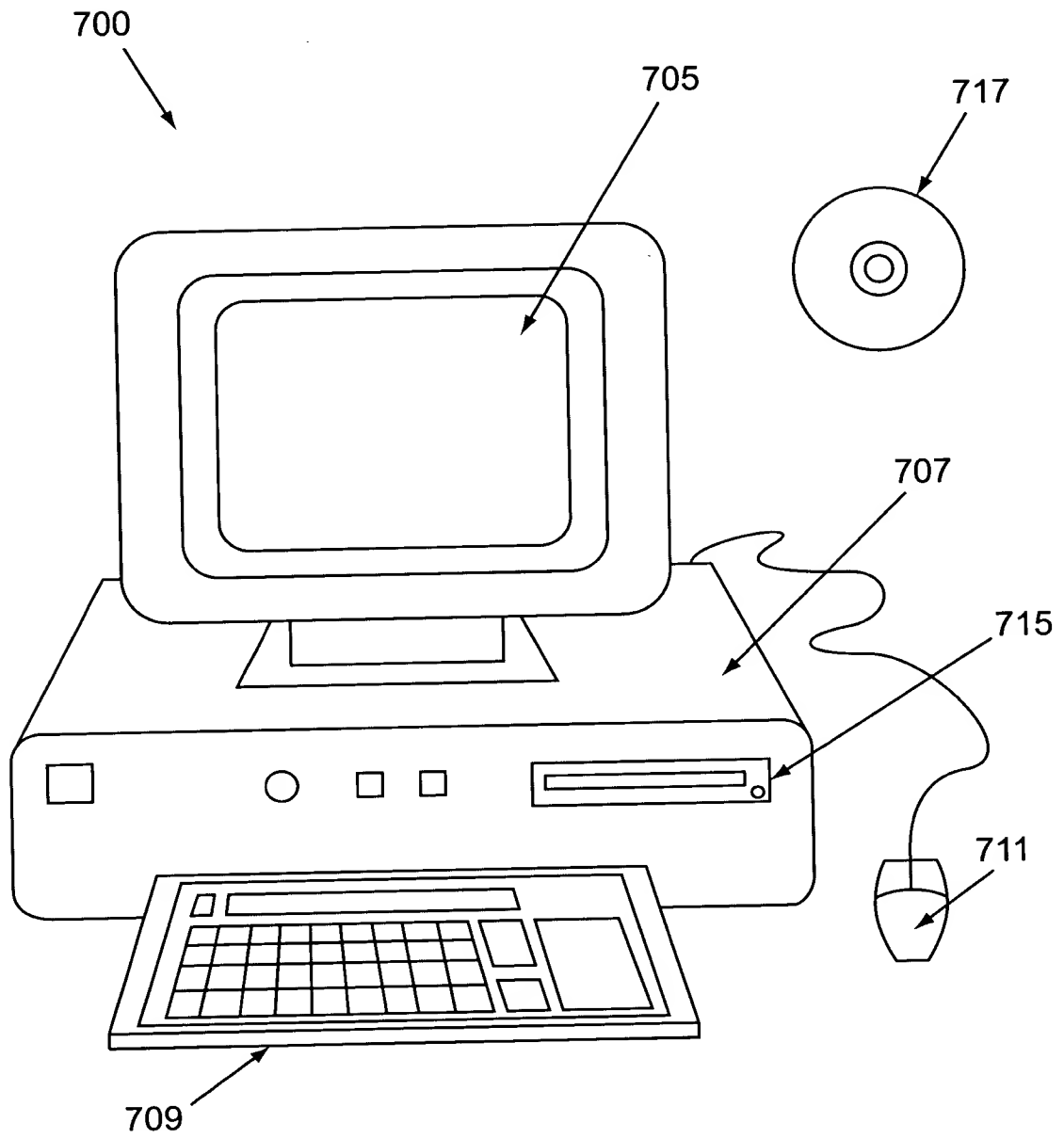
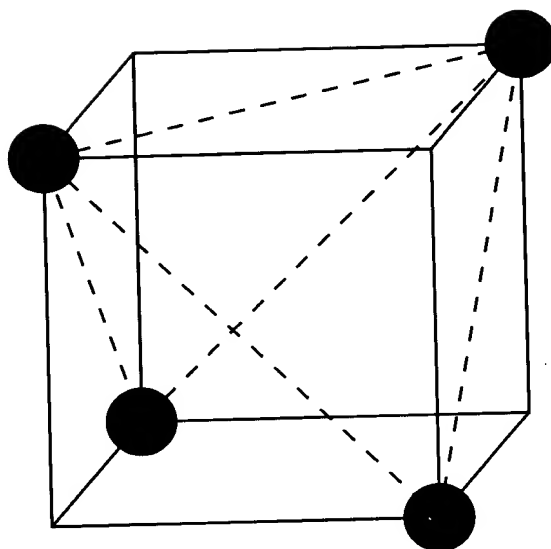


Fig. 13

APPROVED  BY  DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

21/22



Geometric representation  
Equal distance between  
each nucleotide

**Fig. 14A**

A	-1 -1 +1
C	+1 -1 -1
G	-1 +1 -1
T	+1 +1 +1

## Numeric representation

**Fig. 14B**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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22/22

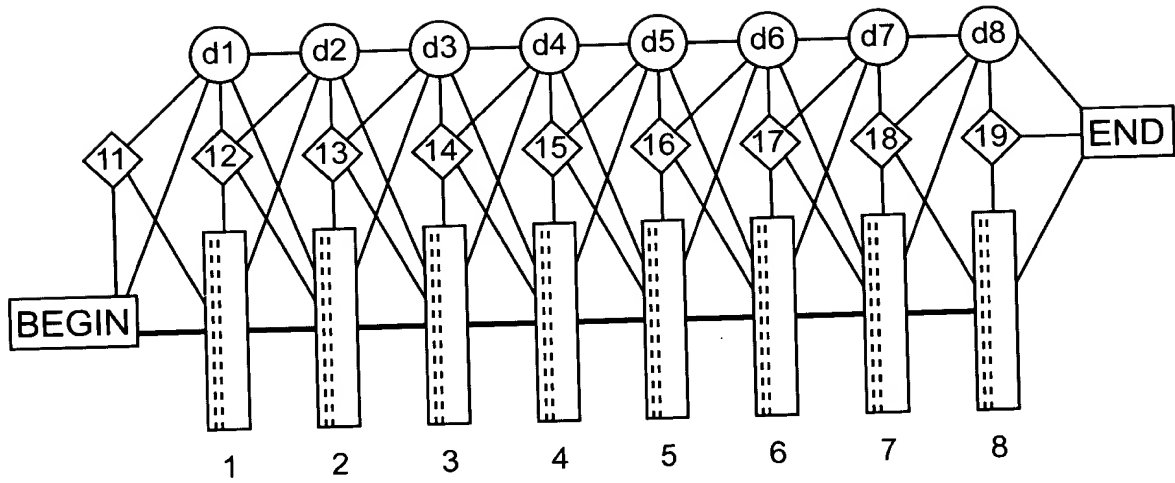


Fig. 15